

PS Claim 1; Page 47-49; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 be used to control microbial infestations in plants and mammalian
 animals.

Sequence 525 AA;

Query Match 48 8%; Score 168; DB 1; Length 525;
 Best Local Similarity 48 8%; Pred. No. 1.19e-08;
 Matches 20; Conservative 8; Mismatches 12; Indels 1; Gaps 1;

ID R20181 standard; Protein; 566 AA.

AC R20181;

DT 16-APR-1992 (first entry)

DE Sequence encoded by 67 kD T. cacao protein cDNA.

KW Cocoa; Flavour; vicilin; seed storage protein.

OS Theobroma cacao.

PN W0919801-A.

PD 26-DEC-1991.

PF 07-JUN-1991; GB-013016.

PR 11-JUN-1990; GB-013016.

PA (MRC) MARS UK LTD.

PT Spencer ME, Hodge R, Deakin EA, Ashton S;

DR WPI; 92-024418/03.

DR N-PSDB; Q20377.

PT Recombinant cocoa proteins - are responsible for flavour in cocoa beans and produced in large quantities using yeast and bacterial expression vectors

PS Claim 4; Fig 2; 59pp; English.

CC The inventors claim a 67 kD and 31 kD T. cacao protein, and

CC fragments, and encoding DNAs. The 47 kD and 31 kD proteins are

CC detected from the 67 kD precursor. T. cacao protein cDNA was

CC using a probe based on the AA sequence of a CNBr peptide common to

CC the 47 kD and 31 kD polypeptides. Homology searches revealed close

CC homologies between the 67 kD polypeptide and the vicilins, which are

CC seed storage proteins.

CC Sequence 566 AA;

SQ

RESULT 4

Query Match 48 8%; Score 168; DB 1; Length 566;

Best Local Similarity 48 8%; Pred. No. 1.19e-08;

Matches 20; Conservative 8; Mismatches 12; Indels 1; Gaps 1;

ID W62828 standard; Protein; 666 AA.

AC W62828;

DT 27-OCT-1998 (first entry)

DE Macadamia integrifolia antimicrobial protein.

KW antimicrobial protein; infestation; control.

OS Macadamia integrifolia.

FH Key location/Qualifiers

FT Peptide 1..28

FT /note= "signal peptide"

FT Protein 29..666

FT /note= "mature protein"

PN W09827805-A1.

PD 02-JUL-1998.

PF 22-DEC-1997; AU0874.

PR 20-DEC-1995; AU-004275.

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

PI Bower NJ, Goultier KC, Green JL, Manners JM, Marcus JP;

DR WPI; 98-37779/32.

DR N-PSDB; V42310.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia - useful for controlling microbial infestations of plants or mammals.

PS Claim 1; Page 34-36; 96pp; English.

CC The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals.

Sequence 666 AA;

RESULT 5

Query Match 37.2%; Score 128; DB 1; Length 666;

Best Local Similarity 28.6%; Pred. No. 1.50e-04;

Matches 12; Conservative 17; Mismatches 13; Indels 0; Gaps 0;

ID W62829 standard; Protein; 666 AA.

AC W62829;

DT 27-OCT-1998 (first entry)

DE Macadamia integrifolia antimicrobial protein.

KW antimicrobial protein; infestation; control.

OS Macadamia integrifolia.

FH Key location/Qualifiers

FT Peptide 1..28

FT /note= "signal peptide"

FT Protein 29..666

FT /note= "mature protein"

PN W09827805-A1.

PD 02-JUL-1998.

PF 22-DEC-1997; AU0874.

PR 20-DEC-1996; AU-004275.

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

PI Bower NJ, Goultier KC, Green JL, Manners JM, Marcus JP;

DR WPI; 98-37779/32.

DR N-PSDB; V42310.

CC from glycine max. This protein is used in a method resulting in the production of a modified plant sucrose binding protein (SBP) which has a modified amino acid sequence compared to a corresponding wild-type SBP, and where expression of the modified SBP in a yeast assay system confers enhanced sucrose uptake compared to the corresponding wild-type SBP. The products of the invention can be used for producing transgenic plants which have modified sucrose uptake activity, particularly in developing seeds. Enhanced sucrose uptake activity in developing seeds may be desirable where it is an advantage to increase the carbohydrate content of the seed (e.g. where the seed is the primary plant material harvested, such as soybean). In contrast, decreased sucrose uptake activity in seeds might be desirable where the vegetative material of the plant is harvested. The SBP regulatory regions confer specific or enhanced expression in developing seeds and so may be used to express any transgene in developing seeds.

Query Match	27.3%	Score	94	DB 1;	Length	524;			
Best Local Similarity	35.7%	Prod. No.	3.1le-01;						
Matches	10;	Conservative	10;	Mismatches	6;	Indels	2;	Gaps	2::
Db	43	CKHOCQQQOYTEGDKRVCQSC-DRYH	69						
Qy	127	: : : - : : : :							
		CQHQCHOEQRPE-KKQQCVREREKTYQ	153						

RESULT 11
ID R21079 standard; Peptide; 35 AA.
AC R21079;
DT 09-PPR-1992 (first entry)

RESULT 11
ID R21079 standard; Peptide; 35 AA.
AC R21079;
DT 09-APR-1992 (first entry)

The N-proteinase may also be administered to treat a disease resulting from insufficient production of N-proteinase, such as Ehlers-Danlos disease.
Sequence 121 AA;

Query	Match	25.9%	Score	89	DB	1	Length	1211
Best	Local	Similarity	37.9%	Pred.	No.	9.13e-01	Mismatches	9
Matches	11	Conservative	6				Indels	3
Db	958	HCN - DARPESSRACSGRELCCGWRAGPW	984					
Oy	130	HCHOGBORPEKQOCVRE-CREKYQENPW	157					

RESULT 13
ID W62835 standard; Protein; 33 AA.
AC W62835;
DT 27-OCT-1998 (first entry)
DE zea mays antimicrobial protein.
KW antimicrobial protein; insectation; control.
OS zea mays.
ON w62835.v1
WD 00027805.v1

The isolated CMII gene can be used to prepare an expression vector for prodn. of recombinant CMII for use in controlling plant pathogenic organisms. See also Q20272 and 3.

Query Match 27.0%; Score 93; DB 1; Length 35;
 Best Local Similarity 37.0%; Pred. No. 3.86e-01;
 Matches 10; Conservative 10; Mismatches 6; Indels 1; Gaps 1;

Db	6	ECRROQLRRHEGOPYETOBCMRRCCR	32
:	:	: :	
QY	126	ECQQHC -HQEQQRPEKKQQCVRECREK	151

RESULT 12

AC: W47028; Standard; Protein; 1211 AA.
 DT: 06-JUL-1998 (first entry)
 DE: Human N-proteinase (130 kDa long form).
 KW: N-proteinase; human; collagen; antibody; rheumatoid arthritis;
 fibrosis; Ehlers-Danlos disease; diagnosis; therapy.

Homo sapiens.
WO9800555-A1.
08-JAN-1998.
03-JUL-1997; U12427.

DT	27-OCT-1998	(first entry)
KW	zea mays	antimicrobial protein; infestation; control.
OS	zea mays	
SO	W09827805-A1.	
PD	02-JUL-1998.	
PF	22-DEC-1997; AU0874.	
PR	20-DEC-1996; AU-004275.	
PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.	
PI	BOWER NI, Goulter KC, Green JL, Manners JM, Marcus JP;	
DR	WPI: 98-377979/32.	
PT	Novel anti-microbial protein from e.g. Macadamia integrifolia - useful for controlling microbial infestations of plants or mammals	
PT	Claim 1; Page 55B-60; 96pp; English.	
PS	The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals.	
CC	Sequence 593 AA;	
CC		
RESULT	15	
ID	W03474 standard; Protein; 395 AA.	
AC	W03474;	
DT	23-OCT-1996 (first entry)	
DE	Mouse SRY-related protein.	
KW	Mouse; SRY; primer; PCR; polymerase chain reaction; amplification; probe;	
KW	HMG box; human; bovine; sex; animal; birth.	
OS	Mus musculus	
PN	J08154685-A.	
PD	18-JUN-1996.	
PP	319525.	
PR	30-NOV-1994; JP-319525.	
PR	(KACHIKU KAJUSEIRAN ISHOKU GIKUTSU KENKYUKU.	
DR	WPI: 96-336575/34.	
N-PSSB	T33007.	
PT	Bovine and mouse SRY-related DNA - useful for detecting e.g. the sex of unborn animals	
PS	Claim 1; Page 10-14; 21pp; Japanese.	
CC	This is the amino acid sequence of a mouse SRY-related protein. The gene was isolated from a mouse genomic library using a cDNA fragment amplified by primers T33009-10 as a probe. The screen isolated 4 ECORI fragments of 2.3, 2.8, 3.5 and 1.5 kb covering the gene. Sequence analysis revealed a 240 bp HMG box sequence between bases 7154-7393. Similarity with the human SRY HMG box sequence resulted in primers being generated to amplify the human SRY HMG box sequence for use as a probe to isolate the bovine SRY-related gene (T33008). The mouse and bovine genes are useful for determining the sex of an animal prior to birth.	
SQ	Sequence 395 AA;	
Query Match	24.4%	Score 84; DB 1; Length 395;
Best Local Similarity	47.8%	Pred. No. 2.64e+00; Mismatches 5; Indels 0; Gaps 0;
Matches	11; Conservative 7; Mismatches 5; Indels 0; Gaps 0;	
Db	QQQQFHQQHQHQQHQQHQPKQQ 290	
121	IQDQFQGQQHQHQEQRPEKKQ 143	

